RESTON PRESBYTERIAN CHURCH SPECIAL PERMIT AMENDMENT PLAT

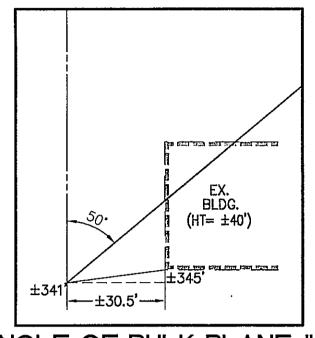
FAIRFAX COUNTY, VIRGINIA

NOTES

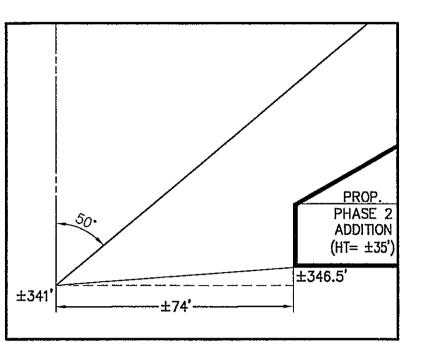
- OWNER/APPLICANT: RESTON PRESBYTERIAN CHURCH 10610 SUNSET HILLS ROAD RESTON, VA 20190
- 2. PROPERTY IS DELINEATED ON ASSESSMENT MAP NUMBER 018-3-((1))-0006 AND IS ZONED R-E (RESIDENTIAL ESTATE).
- 3. THIS APPLICATION REQUESTS A SPECIAL PERMIT FOR THE EXPANSION OF THE EXISTING PLACE OF WORSHIP, ADDITION OF A CHILD CARE CENTER/PRIVATE SCHOOL OF GENERAL EDUCATION, AND FOR A REDUCTION OF THE FRONT YARD SETBACK AND ABP REQUIREMENTS
- 4. THE TOTAL SITE AREA IS $\pm 217,473$ SF OR 4.995 AC.
- 5. TO THE BEST OF OUR KNOWLEDGE, ALL UTILITY EASEMENTS HAVING A WIDTH OF 25 FEET OR MORE ON THIS PROPERTY ARE SHOWN.
- 6. THIS PLAT DOES NOT SHOW ALL COVENANTS, EASEMENTS, RESTRICTIONS, OR DEDICATIONS WHICH MAY EXIST IN THE CHAIN OF
- 7. THE PROPOSED DEVELOPMENT CONFORMS TO ALL APPLICABLE FAIRFAX COUNTY ORDINANCES, REGULATIONS, AND ADOPTED
- 8. EXISTING CONDITIONS, BOUNDARY, AND TOPOGRAPHY INFORMATION TAKEN FROM A FIELD SURVEY BY THIS FIRM DATED APRIL 2007. CONTOUR INTERVAL IS 2 FEET.
- EXISTING PUBLIC SANITARY SEWER LOCATED IN SUNSET HILLS ROAD. A CONNECTION TO PUBLIC WATER IS ALSO PROPOSED
- 10. NO RESOURCE PROTECTION AREAS OR ENVIRONMENTAL QUALITY CORRIDORS. AS DEFINED, ARE LOCATED ON THIS PROPERTY.
- 11. NO GRAVES OR OTHER EVIDENCE OF BURIAL PLACES ARE FOUND ON
- 12. THIS PLAN IS CONCEPTUAL AND IS INTENDED TO BE USED IN NOT AN ENGINEERING CONSTRUCTION DRAWING, AND MINOR DEVIATIONS AND ADJUSTMENTS MAY BE REQUIRED.
- 13. A REVIEW OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 515525 0150D, REVISED MARCH 5, 1990, SHOWS THE PROPERTY TO LIE IN FLOOD PLAIN X. "AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN".
- 14. NO TRANSITIONAL SCREENING OR BARRIER IS REQUIRED ALONG THE NORTH PROPERTY LINE, AS THE ADJACENT USE IS AN EXISTING PRIVATE SCHOOL. NO TRANSITIONAL SCREENING OR BARRIER IS REQUIRED ALONG THE EAST OR SOUTH PROPERTY LINE, DUE TO THE COMMERCIAL USES ON THE OPPOSITE SIDE OF HUNTER MILL ROAD AND SUNSETT HILLS ROAD/DULLES TOLL ROAD, RESPECTIVELY.
- 15. FINAL LOCATION OF TREE SAVE AREAS SHALL BE DETERMINED AT TIME OF SITE PLAN, BUT SHALL BE NO LESS THAN THAT WHICH IS SHOWN ON THIS PLAT. LOCATION OF ANY PROPOSED PLANTING WITHIN TREE SAVE AREAS SHALL BE COORDINATED WITH THE URBAN FOREST MANAGEMENT (UFM) DIVISION AT TIME OF PLANTING.
- 16. APPLICANT RESERVES THE RIGHT TO ADD CELLAR SPACE WITH PHASE II, WHICH WILL BE PARKED IN ACCORDANCE WITH THE FAIRFAX COUNTY ZONING ORDINANCE REQUIREMENTS.
- 17. APPLICANT RESERVES THE RIGHT TO USE ANY SQUARE FOOTAGE PROPOSED IN PHASE I DURING PHASE II.
- 18. THE EXISTING PROPANE TANK IS TO BE RELOCATED.

WAIVERS/MODIFICATIONS REQUESTED

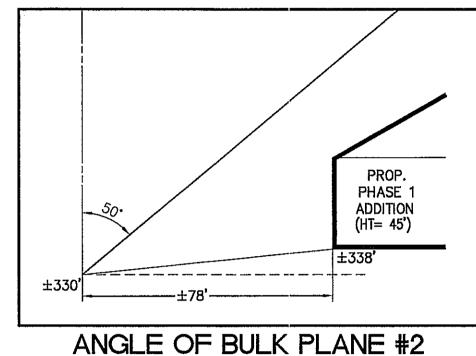
- 1. A WAIVER OF THE BARRIER REQUIREMENT ALONG THE WESTERN
- 2. A MODIFICATION OF THE SCREENING REQUIREMENT ALONG THE WESTERN PROPERTY LINE IN FAVOR OF THE EXISTING VEGETATION
- WAIVER IS REQUESTED FOR APPROVAL OF A SHARED PARKING AGREEMENT FOR THE CHILD CARE/SCHOOL AND CHURCH USES.



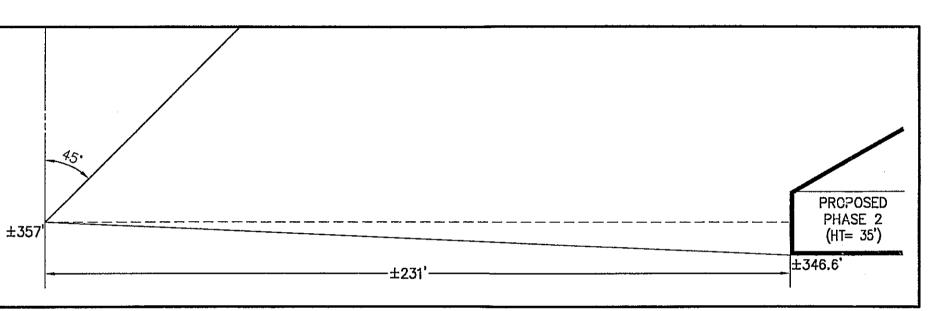
ANGLE OF BULK PLANE #1a PHASE 1 - EX. BLDG. (SUNSET HILLS ROAD)



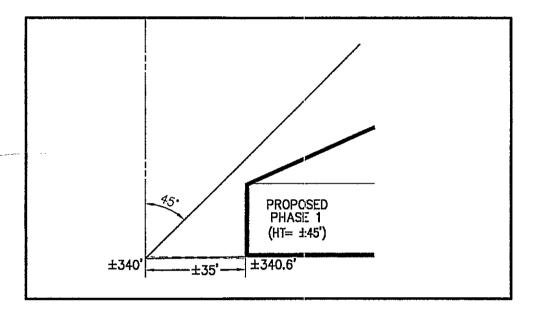
ANGLE OF BULK PLANE #1b PHASE 2 - PROP. BLDG (SUNSET HILLS ROAD)



(HUNTER MILL ROAD)



ANGLE OF BULK PLANE #3 (REAR YARD - PHASE 2)



ANGLE OF BULK PLANE #4 (SIDE YARD - PHASE 1)

ZONING TABULATION

Xref:

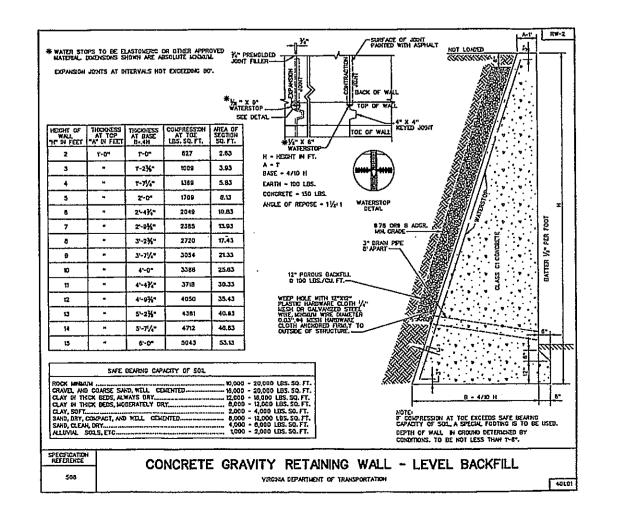
EX. ZONE: R-E, RESIDENTIAL ESTATE DISTRICT

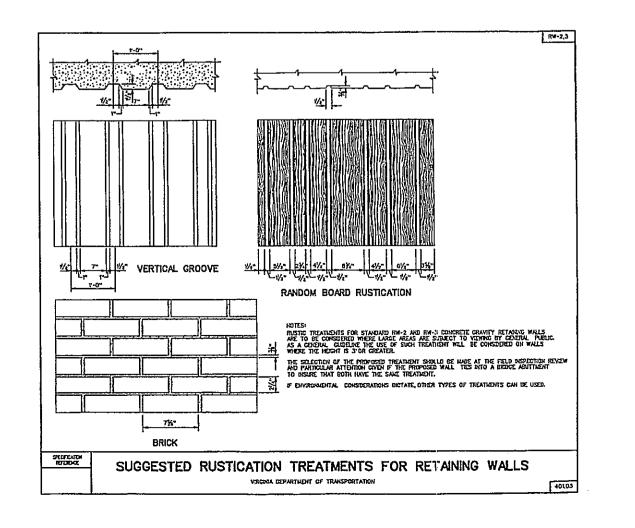
	<u>REQUIRED</u>	<u>PROVIDED</u>					
LOT AREA:	75,000 SF	±217,473 SF/±4.995 AC					
LOT WIDTH:	225 FT	±194 FT (EXISTING CONDITION					
MAX BLD HT:	60 FT	±35 FT; ±45 FT					
YARD REQUIREMENT	S:						
FRONT	50° ABP; 50'	±30.5 FT*					
SIDE	45° ABP; 20'	±35 FT					
REAR	45' ABP; 25'	±231 FT					
MAX FAR:	0.15	(SEE CHART BELOW)					
OPEN SPACE:	NONE	N/A					
INTERIOR PARKING							
LOT LANDSCAPING:	5%	SEE SHEETS 3 & 4					
TREE COVER:	30%	SEE SHEETS 3 & 4					

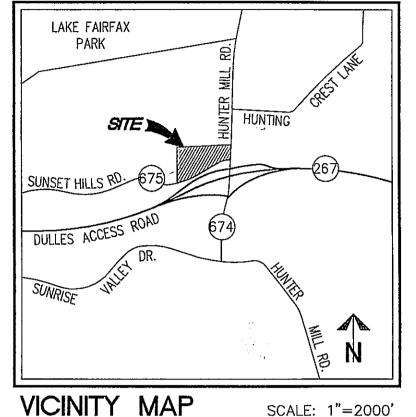
* EXISTING CONDITION (SEE NOTE 3)

BLDG. AREA/FAR TABULATION

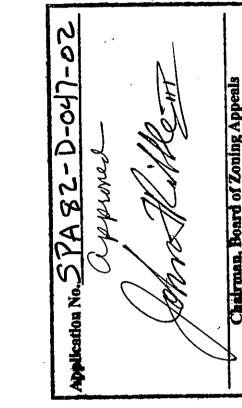
		<u>AREA</u>	F	=.A.R.	
PHASE I					
EX. BUILDING (TO REMAIN W/ PHASE I) (TO BE REMOVED W/ PHA		± 3,500 GSF			
PROP. BLDG. PHASE	•	±13,350 GSF			
TOTAL BLDG. AREA PHASE I	=	±16,850 GSF	=	±0.08	
PHASE II					
PROP. BLDG. AREA PHASE II	trough debugs	±13,150 GSF			
TOTAL BLDG ARE.	A =	±26,500 GSF	=	±0.12	











PARKING TABULATION:

USE: PLACE OF WORSHIP/CHILD CARE CENTER/ SCHOOL OF GENERAL EDUCATION

RATE: PLACE OF WORSHIP 1 SPACE PER EVERY 4 SEATS 450 SEATS/4 = 113

ENROLLMENT 100 OR MORE)

RATE: SCHOOL OF GENERAL EDUCATION (FOR STUDENT BREAKDOWN, SEE CHART BELOW) 1 SPACE PER STAFF MEMBER PLUS 4 VISITOR SPACES: 0.3 SPACES FOR HIGH SCHOOL STUDENTS

PHASE I: 12_STAFF MEMBERS + 4 = 16 SPACES PHASE II: 56 HIGH SCHOOL STUDENTS X 0.3 = 17 SPACES PHASE II: 20 STAFF MEMBERS + 4 = 24 SPACES

RATE: CHILD CARE CENTER** (FOR STUDENT BREAKDOWN, SEE CHART BELOW) 0.19 SPACE PER CHILD (MAX. DAILY ENROLLMENT 99 OR LESS) 0.16 SPACE PER CHILD (MAX. DAILY

PHASE I: 100 CHILDREN (TOTAL) \times 0.16 = 16 SPACES PHASE II: 175 CHILDREN (TOTAL) x 0.16 = 28 SPACES

PARKING REQUIRED PHASE | = 113+16+16 = 145 SPACES* PARKING PROVIDED PHASE I = 139 SPACES* (INCL. 5 HC)

PARKING REQUIRED PHASE II = 113+17+24+28 = 182 SPACES* PARKING PROVIDED PHASE II = 142 SPACES*

*APPROVAL OF SHARED PARKING AGREEMENT FOR THE CHILD CARE/ SCHOOL AND CHURCH USES IS REQUESTED **CHILD CARE ENROLLMENT TO BE INCREASED IN 2 PHASES

USABLE OUTDOOR RECREATION TABULATION

PROVIDED: ±10,500 SF OF USABLE OUTDOOR RECREATION AREA DURING EACH PHASE (SEE AREA DESIGNATED ON PLAN)

PRE-K = 100 SF/CHILD OUTSIDE AT A GIVEN TIME

= 200 SF/CHILD OUTSIDE AT A GIVEN TIME 4-12 = 430 SF/CHILD OUTSIDE AT A GIVEN TIME

PRE-K = 105 STUDENTS (MAX. OUTSIDE AT A GIVEN TIME)= 52 STUDENTS (MAX. OUTSIDE AT A GIVEN TIME) 4-12 = 24 STUDENTS (MAX. OUTSIDE AT A GIVEN TIME)

*STUDENTS RECESSES WILL BE STAGGERED TO PROVIDE CHILDREN WITH ADEQUATE OUTDOOR RECREATION SPACE FOR THE BEFORE AND AFTER-SCHOOL CARE FOR THE CHILDREN ATTENDING THE SCHOOL.

SHEET INDEX

- COVER SHEET
- 2. EXISTING CONDITIONS PLAN
- 2A. EXISTING VEGETATION MAP
- SPECIAL PERMIT AMENDMENT PLAT PHASE 1
- 4. SPECIAL PERMIT AMENDMENT PLAT PHASE 2
- 5. PRELIMINARY STORMWATER MANAGEMENT PLAN
- 6. SUNSET HILLS ROAD SIGHT DISTANCE PLAN & PROFILE
- 7. ARCHITECTURAL ELEVATIONS

α

3

出 出 S

0

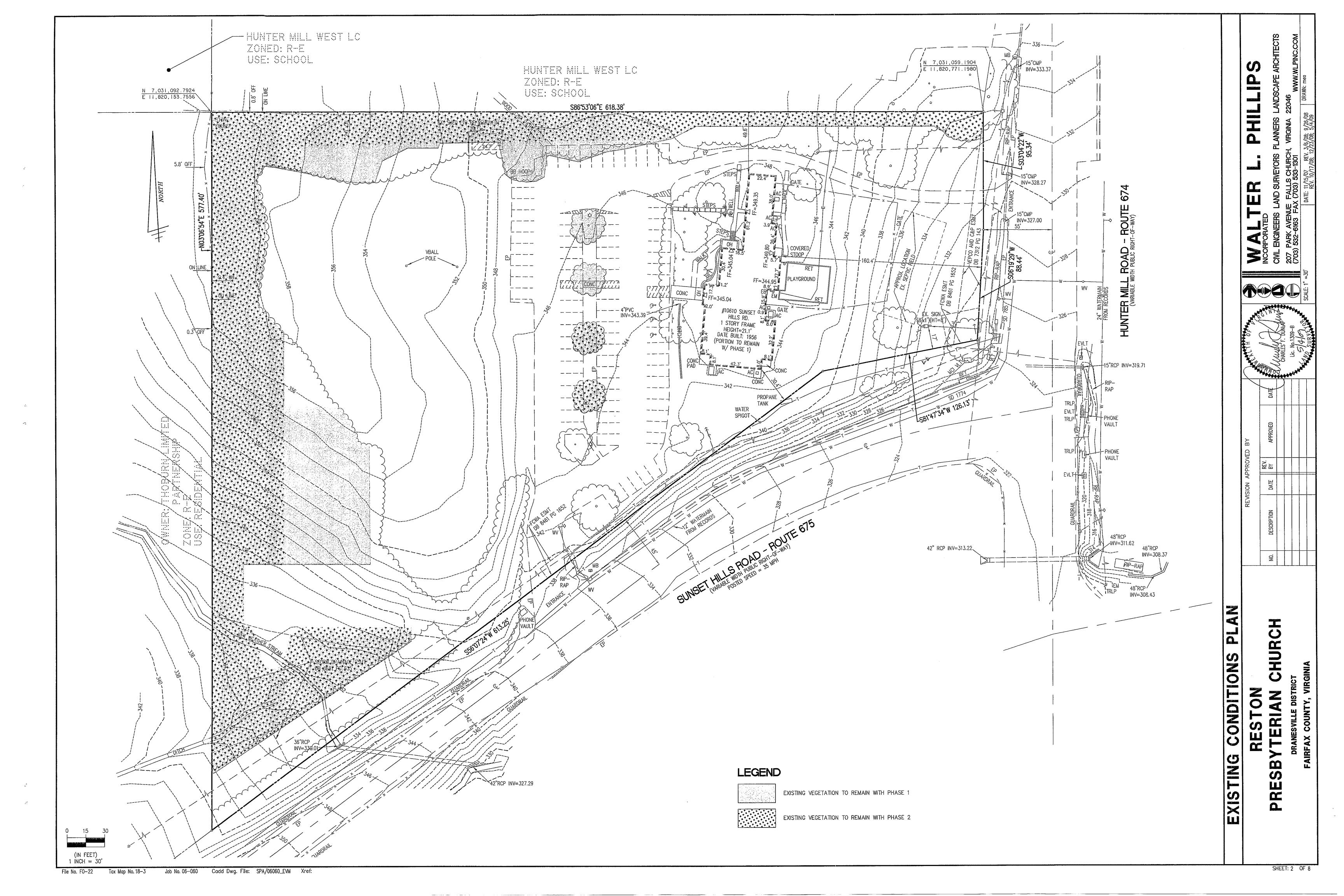
RECEIVED

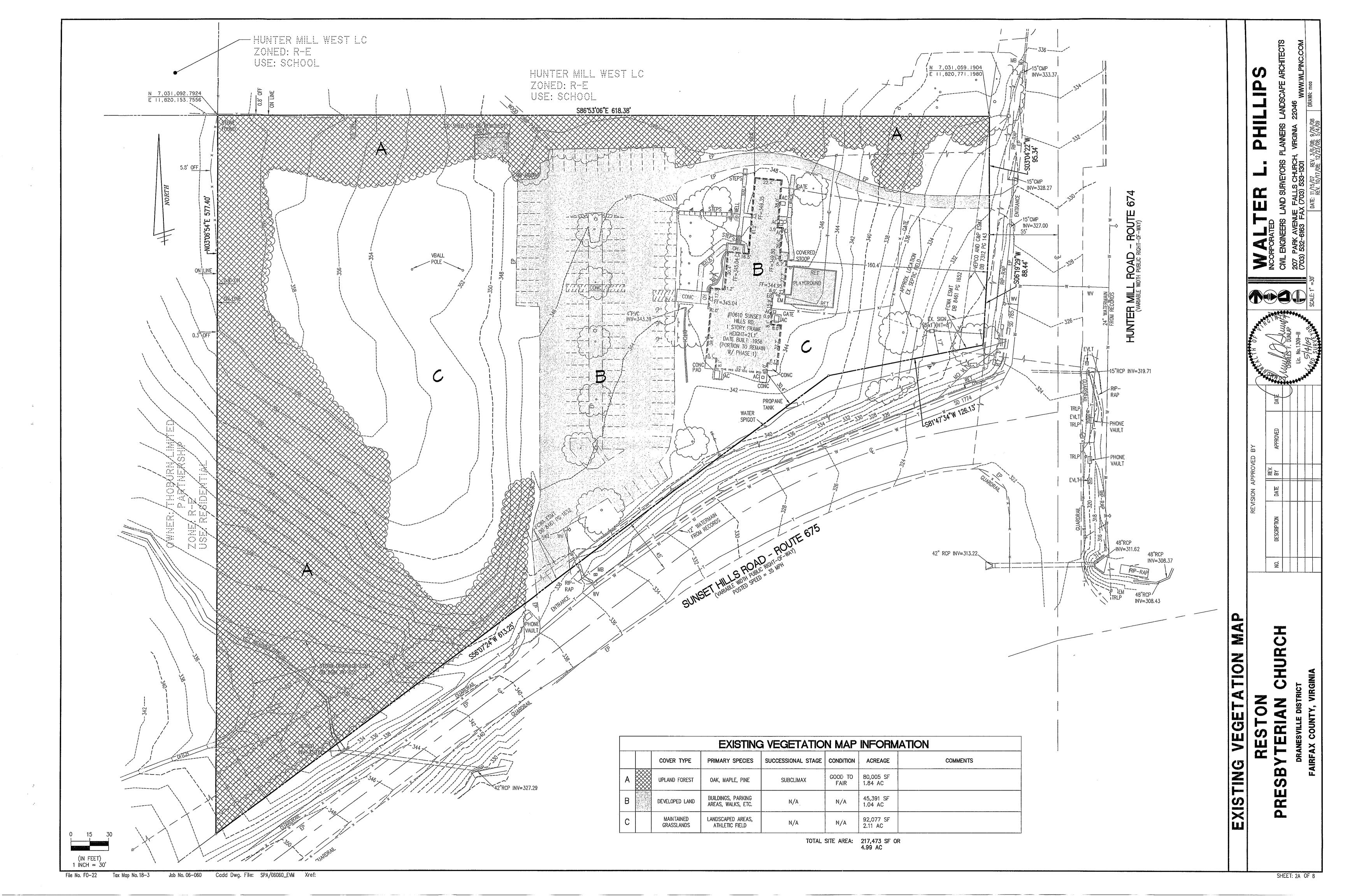
MAY 0 4 2005

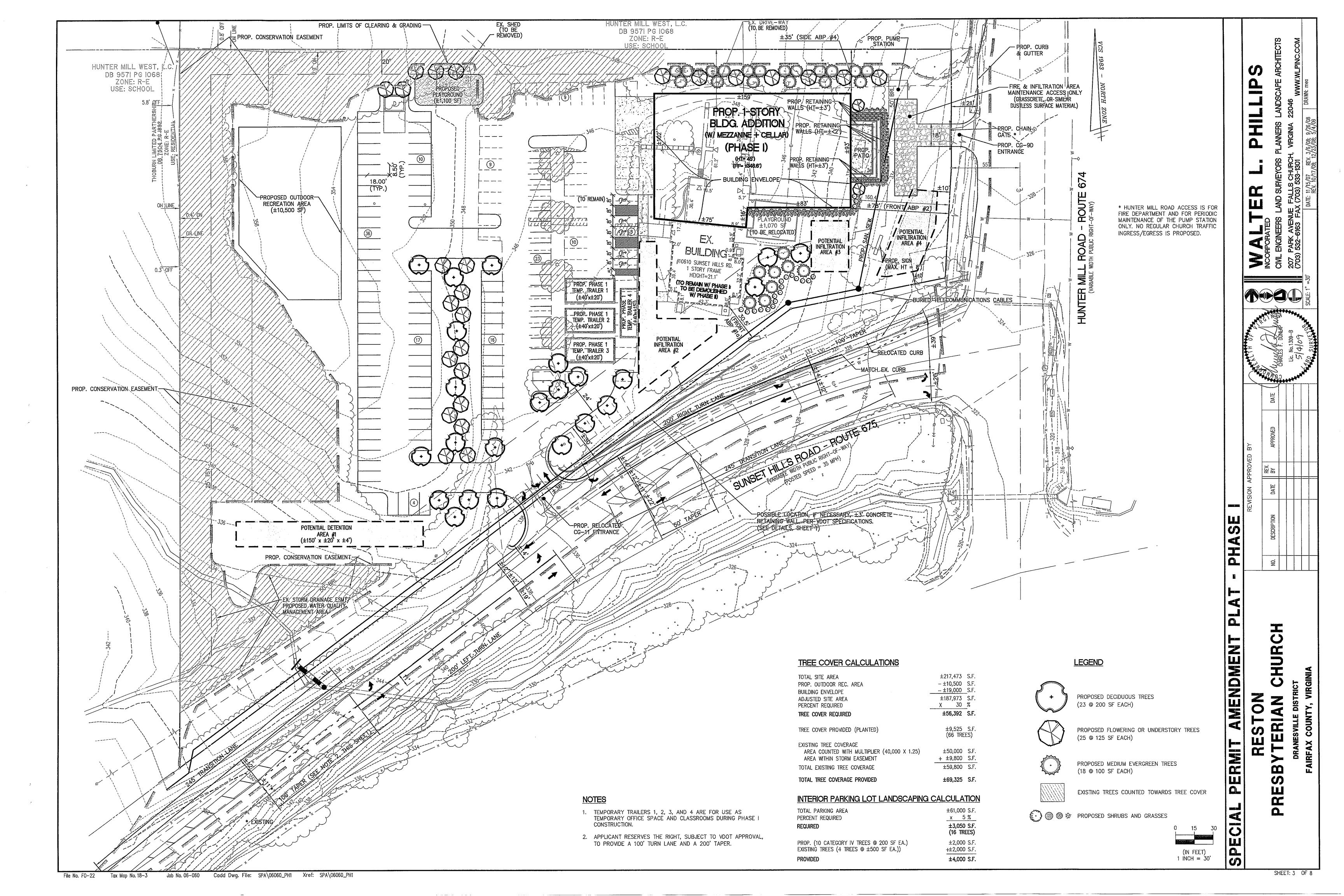
Zoning Evaluation Divisio

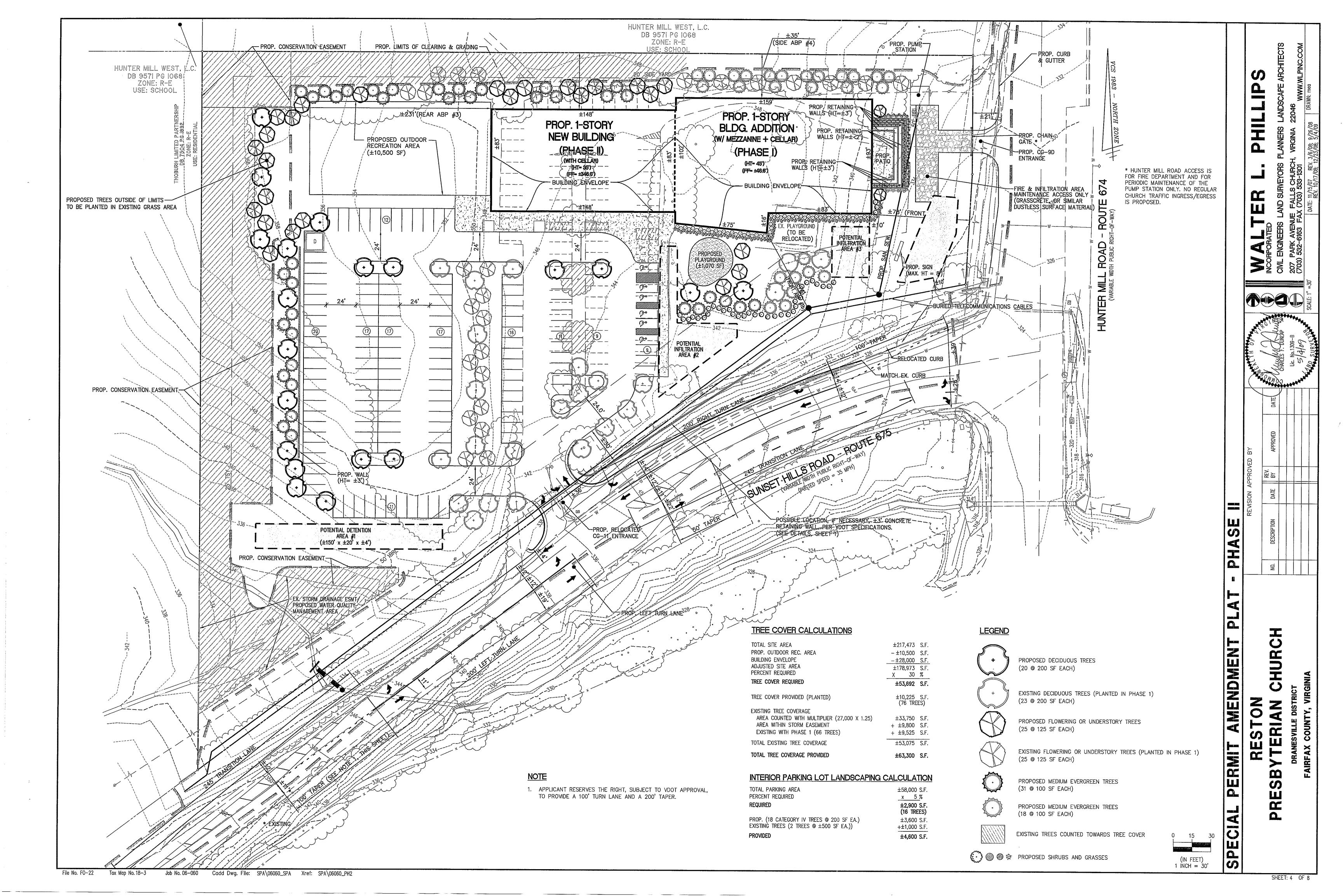
Jepartment of Planning

8. ARCHITECTURAL ELEVATIONS









STORMWATER MANAGEMENT SUMMARY

- I. PRE-DEVELOPMENT (EXISTING CONDITIONS): (TOTAL SITE) CONTRIBUTING AREAS:
 - 3.98 AC. @ 0.30 (GREEN AREA, DN-SITE) 1.01 AC. @ O.90 (ROOFS, DRIVEWAYS, SIDEWALKS, ETC.) 4. 99 AC.
- WEIGHTED "C":
 - (3.98)(0.30)+(1.01)(0.90) = 0.424, 99
- TIME OF CONCENTRATION = 5 MIN.
- RUNDFF: Q2 = (0, 42)(5, 45)(4, 99) = 11, 42 CFSQ10 = (0.42)(7.27)(4.99) = 15.24 CFS
- II. POST-DEVELOPMENT (PROPOSED CONDITIONS): (TOTAL SITE)
- CONTRIBUTING AREAS:
 - 2.78 AC. @ 0.30 (GREEN AREA, DN-SITE) 2.21 AC. @ O.90 (PAVED AREA, ON-SITE) 4.99 AC
- WEIGHTED "C" (2.78)(0.30)+(2.21)(0.90) = 0.57
- 4, 99 C. RUNDFF:
 - PLEASE SEE INDIVIDUAL DRAINAGE AREA RUNOFF COMPILATIONS IN SECTIONS III THROUGH VII, BELOW,
- III. POST-DEVELOPMENT DRAINAGE AREA #1
- A. CONTRIBUTING AREAS:
 - 0.17 AC. @ 0.30 (GREEN AREA, UN-SITE) 0.61 AC. @ 0.90 (PAVED AREA, ON-SITE) 0. 78 AC
- WEIGHTED "C": (0.17)(0.30)+(0.61)(0.90) = 0.77
- RUNDFF: Q2 = (0.77)(5.45)(0.78) = 3.27 CFSQ10 = (0.77)(7.27)(0.78) = 4.37 CFS
- IV. POST-DEVELOPMENT DRAINAGE AREA #2
 - A. CONTRIBUTING AREAS
 - 0.36 AC. @ 0.30 (GREEN AREA, DN-SITE) 0.98 AC. @ 0.90 (PAVED AREA, DN-SITE) 1,34 AC
 - WEIGHTED "C": (0.36)(0.30)+(0.98)(0.90) = 0.741. 34
 - C. RUNDFF: Q2 = (0.74)(5.45)(1.34) = 5.40 CFSQ10 = (0.74)(7.27)(1.34) = 7.21 CFS
- V. POST-DEVELOPMENT DRAINAGE AREA #3
- CONTRIBUTING AREAS:
 - 0.17 AC. @ 0.30 (GREEN AREA, DN-SITE) 0.25 AC. @ 0.90 (PAVED AREA, DN-SITE) 0, 42 AC
- WEIGHTED "C": (0.17)(0.30)+(0.25)(0.90) = 0.66

RUNDFF:

Q2 = (0.66)(5.45)(0.42) = 1.51 CFS

Q10 = (0.66)(7.27)(0.42) = 2.02 CFS

- VI. POST-DEVELOPMENT DRAINAGE AREA #4
- CONTRIBUTING AREAS:
 - 0.12 AC. @ 0.30 (GREEN AREA, ON-SITE) 0.37 AC. @ 0.90 (PAVED AREA, DN-SITE) O. 49 AC
- WEIGHTED "C":
 - $\frac{(0.12)(0.30)+(0.37)(0.90)}{(0.12)(0.30)+(0.37)(0.90)} = 0.75$
- RUNDFF:
- Q2 = (0.75)(5.45)(0.49) = 2.00 CFSQ10 = (0.75)(7.27)(0.49) = 2.67 CFS
- VI. POST-DEVELOPMENT DRAINAGE AREA #5
 - A. CONTRIBUTING AREAS:
 - 1,96 AC. @ 0,30 (GREEN AREA, UN-SITE)
 - C = 0.30
 - RUNDFF:
 - Q2 = (0, 30)(5, 45)(1, 96) = 3, 20 CFSQ10 = (0.30)(7.27)(1.96) = 4.27 CFS

BMP FACILITY DESIGN CALCULATIONS

<u> ART 1 – </u>	LIST ALL OF SUBAREAS	% "C"	FACTO	ORS USED I	N THE BMP CON	ΛP
(1)	DESCRIPTION		(2)	"C"	(3) ACRES	
A1	ONSITE CONTROLLED (DETENTI	ON #1)		0.77	0.78	
A2	ONSITE CONTROLLED (INFIL. TI	RENCH #2))	0.74	1.34	
АЗ	ONSITE CONTROLLED (INFIL. TE	0.66	0.42			
A4	ONSITE UNCONTROLLED (INFIL.	0.75	0.49			
A5	ONSITE UNCONTROLLED		0.30	1.96		
					4.99	
PART 2 (A)	- COMPUTE THE AVERA	AGE "C"			E ENTIRE SITE	
` '	AREA OF SITE		(a)	4.99 AC		
(B)	SUBAREA DESIGNATION	"C"		ACRES	PRODUCT	
	(1)	(2)		(3)	(4)	
	A1	0.77	Χ	0.78	= 0.60	
	A2	0.74	Χ	1.34	= 0.99	
	A3	0.66	Χ	0.42	= 0.28	
	A4	0.75		0.49	= 0.37	
	A5	0.30	Χ	1.96	= 0.59	
						

(C) WEIGHTED "C" FACTOR

PART 3: COMPUTE THE TOTAL PHOSPHORUS REMOVAL FOR THE SITE

	AREA	BMP			REMOV		AREA	"(FACTOR	PR	ODUCT
	NATION	TYPE			EFF. (S	%)	RATIO		RATIO		
(1)		(2)			(3)		(4)		(5)		(6)
Α ₂	ONSITE DRAIN	IAGE AREA	#2 TO INFILTRATION	Ī	70	x	1.34/4.99	x	0.74/0.57	=	24.40
Α ₃	ONSITE DRAIN	IAGE AREA	#3 TO INFILTRATION		70	x	0.42/4.99	X I	0.66/0.57	=	6.82
A_4	ONSITE DRAIN	IAGE AREA	#4 TO INFILTRATION		70	x	0.49/4.99	x (0.75/0.57	=	9.04
A ₅	ONSITE CONSI	ervation e	ASEMENT		100	x	0.34/4.99	x	1.00	=	6.81
Α ₆	ONSITE WATER	R QUALITY I	MANAGEMENT AREA		100	x	0.16/4.99	x	1.00	=	3.21
									(a) TOTA	L =	50.28%

PART 4: DETERMINE COMPLIANCE WITH PHOSPHORUS REMOVAL REQUIREMENT

(A) SELECT REQUIREMENT

- * WATER SUPPLY OVERLAY DISTRICT (OCCOQUAN WATERSHED) = 50 % * CHESAPEAKE BAY PRESERVATION AREA (NEW DEVELOPMENT) = 40 %
- (B) IF LINE 3(a) 50.28 ≥ LINE 4(a) 40 THEN PHOSPHORUS REMOVAL REQUIREMENT IS SATISFIED.
- NOTE: PENDING FINAL ENGINEERING, PHOSPHORUS REMOVAL MAY CHANGE BUT WILL ULTIMATELY MEET THE 40% REQUIREMENT. ADDITIONAL BMP FACILITIES AND/OR CONSERVATION EASEMENTS MAY BE PROPOSED AT TIME OF SITE PLAN IF NECESSARY IN ORDER TO MEET THE PHOSPHORUS REMOVAL REQUIREMENT.

INFILTRATION NOTE

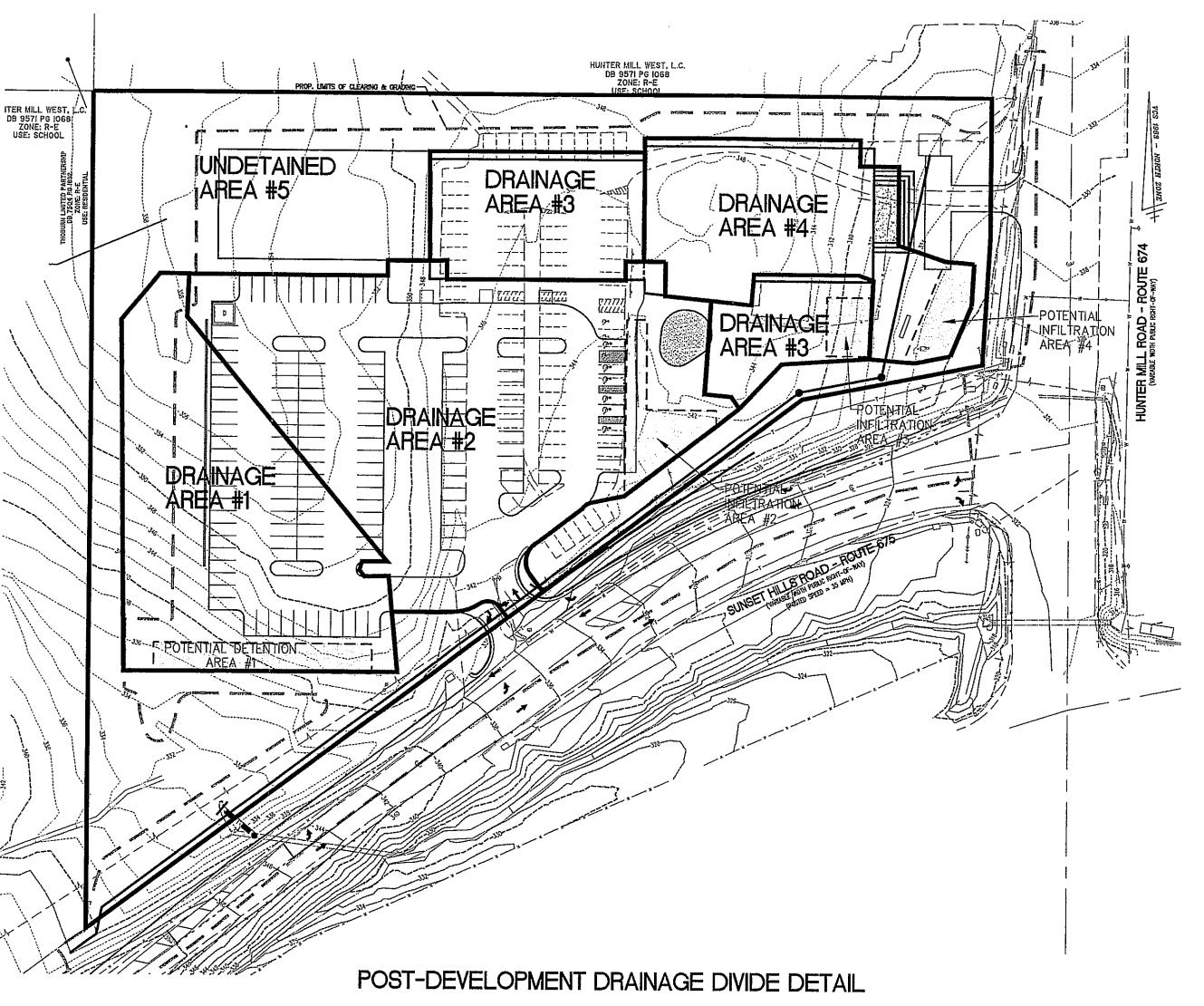
(b) 2.83

(b)/(a) = 2.83 / 4.99 = 0.57

ALL INFILTRATION INFORMATION IS PER GEOTECHNICAL ANALYSIS PERFORMED BY ECS. LLC. DATED JUNE 9, 2008 IN ACCORDANCE WITH FAIRFAX COUNTY TESTING GUIDELINES FOR INFILTRATION FACILITIES, DATED MARCH 2007. PER THIS ANALYSIS, THE FOLLOWING DEPTHS AND INFILTRATION DESIGN RATES WERE USED:

INFILTRATION AREA 2 - SUBGRADE ELEV. 334 & DESIGN INFILTRATION RATE OF 2.8 IN/HR INFILTRATION AREA 3 - SUBGRADE ELEV. 333 & DESIGN INFILTRATION RATE OF 2.2 IN/HR INFILTRATION AREA 4 - SUBGRADE ELEV. 326 & DESIGN INFILTRATION RATE OF 2.7 IN/HR

FINAL INFILTRATION DESIGN WILL OCCUR WITH SITE PLAN. ALL INFILTRATION DESIGN IS SUBJECT TO CHANGE AT THAT TIME AND WILL COMPLY WITH ALL FAIRFAX COUNTY SIZING REGULATIONS.



SCALE: 1"=60"

THE SITE CURRENTLY CONTAINS AN EXISTING CHURCH BUILDING AND ACCESSORY STRUCTURES AND AN ASPHALT PARKING LOT. THE PRE-DEVELOPMENT IMPERVIOUS AREA IS 1.01 AC AND THE POST-DEVELOPMENT IMPERVIOUS AREA WILL BE INCREASED TO 2.21 ACRES. THE PHOSPHOROUS REMOVAL REQUIREMENT FOR THE SITE IS 40%. THIS REQUIREMENT IS PROPOSED TO BE MET THROUGH A COMBINATION OF BMP FACILITIES LOCATED IN DRAINAGE AREAS 2, 3, 4 AND 5 AS DESCRIBED BELOW.

THE PRE-DEVELOPMENT PEAK RELEASES FROM THE SITE ARE 11.42 CFS AND 15.24 CFS FOR THE 2 YEAR AND 10 YEAR STORMS RESPECTIVELY. THE POST-DEVELOPMENT RELEASE RATES FROM THE SITE WILL NOT EXCEED THESE PRE-DEVELOPMENT RELEASE RATES.

DRAINAGE AREA #1: AN EXTENDED DETENTION FACILITY IS PROPOSED TO BE PROVIDED IN THIS AREA. THIS EXTENDED DETENTION FACILITY IS SIZED PER PFM SECTION 6-0203.4C. PHOSPHOROUS REMOVAL MAY BE PROVIDED IN THIS AREA THROUGH THE USE OF STORMFILTER(S) AND/OR FILTERRA(S) AT TIME OF FINAL ENGINEERING. ADDITIONALLY, THE OUTFALL MAY BE RE-EVALUATED FOR ADEQUACY AT THE TIME OF SITE PLAN. IF IT IS FOUND THAT THE OUTFALL IS ADEQUATE TO THE EXTENT OF REVIEW DETERMINED USING PFM SECTION 6-0203.2, THEN STANDARD QUANTITY CONTROL WILL BE PROVIDED IN LIEU OF A FACILITY DESIGNED USING THE DETENTION METHOD.

DRAINAGE AREAS #2, 3 AND 4: INFILTRATION TRENCHES ARE PROPOSED TO BE PROVIDED IN THIS AREA. THESE INFILTRATION TRENCHES ARE SIZED TO INFILTRATE THE ENTIRE 10 YEAR STORM WITH A ZERO RELEASE RATE. THESE TRENCHES WILL ALSO SERVE AS A BMP AND WILL HAVE A PHOSPHOROUS REMOVAL EFFICIENCY OF 70%. THESE INFILTRATION TRENCHES WILL BE CONSTRUCTED USING VDOT 57 STONE AND/OR RAINTANKS, OR SIMILAR STORAGE STRUCTURES, IN ORDER TO ACHIEVE THE REQUIRED STORAGE VOLUME.

DRAINAGE AREA #5: A ±0.34 ACRE CONSERVATION EASEMENT IS PROPOSED ALONG THE WESTERN SIDE OF THE PROPERTY. PHOSPHORUS REMOVAL CREDIT IS ASSIGNED TO THIS AREA.

DRAINAGE AREA #6: A ±0.16 ACRE WATER QUALITY MANAGEMENT AREA IS PROPOSED SOUTHWESTERN CORNER OF THE SITE WITHIN THE LIMITS OF THE EXISITING STORM DRAINAGE EASEMENT.

SEE INFILTRATION NOTE ON THIS SHEET FOR INFILTRATION SUMMARY.

THIS SWM/BMP DESIGN IS SUBJECT TO CHANGE WITH FUTURE ENGINEERING AND WILL BE RE-EVALUATED AND VERIFIED WITH FUTURE PLANS.

OUTFALL NARRATIVE:

THIS SITE ULTIMATELY DRAINS TO DIFFICULT RUN. THE STORMWATER FROM THIS SITE IS CONVEYED VIA SHEET FLOW AND STORM SEWER FLOW TO THE EXISTING BED AND BANKS OF A BRANCH OF DIFFICULT RUN. THE SITE IS DIVIDED INTO FIVE DRAINAGE AREAS. THE OUTFALL ANALYSIS FOR EACH DRAINAGE AREA IS AS FOLLOWS:

DRAINAGE AREA #1: AN EXTENDED DETENTION FACILITY IS PROPOSED TO BE PROVIDED IN THIS AREA. THIS EXTENDED DETENTION FACILITY IS SIZED TO MEET THE FAIRFAX COUNTY ADEQUATE OUTFALL REQUIREMENTS PER PFM SECTION 6-0203.4C. THE OUTFALL MAY BE RE-EVALUATED FOR ADEQUACY AT THE TIME OF SITE PLAN. IF IT IS FOUND THAT THE OUTFALL IS ADEQUATE TO THE EXTENT OF REVIEW DETERMINED USING PFM SECTION 6-0203.2, THEN STANDARD QUANTITY CONTROL WILL BE PROVIDED IN LIEU OF A FACILITY DESIGNED USING THE DETENTION METHOD.

DRAINAGE AREA #2: AN INFILTRATION TRENCH IS PROPOSED TO BE PROVIDED IN THIS AREA. THE PROPOSED INFILTRATION TRENCH WILL INFILTRATE THE ENTIRE 10 YEAR STORM. THEREFORE, THERE IS ZERO RUNOFF FROM THIS DRAINAGE AREA AND THE OUTFALL IS ADEQUATE.

DRAINAGE AREA #3: AN INFILTRATION TRENCH IS PROPOSED TO BE PROVIDED IN THIS AREA. THE PROPOSED INFILTRATION TRENCH WILL INFILTRATE THE ENTIRE 10 YEAR STORM. THEREFORE, THERE IS ZERO RUNOFF FROM THIS DRAINAGE AREA AND THE OUTFALL IS ADEQUATE.

DRAINAGE AREA #4: AN INFILTRATION TRENCH IS PROPOSED TO BE PROVIDED IN THIS AREA. THE PROPOSED INFILTRATION TRENCH WILL INFILTRATE THE ENTIRE 10 YEAR STORM. THEREFORE, THERE IS ZERO RUNOFF FROM THIS DRAINAGE AREA AND THE OUTFALL IS ADEQUATE.

DRAINAGE AREA #5: THE UNDETAINED AREA DOES NOT INCLUDE ANY IMPERVIOUS AREA. THE RUNOFF FROM THIS AREA FLOWS VIA SHEET FLOW ONLY. THE RUNOFF FROM THIS AREA IS NOT INCREASED FROM THE PREDEVELOPMENT CONDITIONS, THEREFORE PER PFM SECTION 6-0202.6, THIS DRAINAGE AREA HAS AN ADEQUATE OUTFALL.

IN SUMMARY, THE ADEQUATE OUTFALL REQUIREMENTS ARE PROPOSED TO BE MET THROUGH AN EXTENDED DETENTION FACILITY AND INFILTRATION TRENCHES. IT IS IN THE OPINION OF THE SUBMITTING ENGINEER THAT THE ADEQUATE OUTFALL REQUIREMENTS WILL BE MET WITH THE PROPOSED IMPROVEMENTS.

THIS PRELIMINARY OUTFALL ANALYSIS IS SUBJECT TO CHANGE WITH FUTURE ENGINEERING AND WILL BE REEVALUATED AND VERIFIED WITH FUTURE PLANS. SEE INFILTRATION NOTE ON THIS SHEET FOR INFILTRATION SUMMARY.

STORMWATER MANAGEMENT CHECKLIST

MINIMUM STORMWATER INFORMATION FOR REZONING, SPECIAL EXCEPTION. SPECIAL PERMIT AND DEVELOPMENT PLAN APPLICATIONS

The following information is required to be shown or provided in all zoning applications, or a waiver request of the submission requirement with justification shall be attached. Note: Waivers will be acted upon separately. Failure to adequately address the required submission information may result in a delay in processing this

This information is required under the following Zoning Ordinance paragraphs: Special Permits (8-011 2J & 2L) Special Exceptions (9-011 2J & 2L) Cluster Subdivision (9-615 1G & 1N) Commercial Revitalization Districts (9-622 2A (12) & (14)) Development Plans PRC District (16-302 3 & 4L) PRC Plan (16-303 1E & 10) FDP P Districts (except PRC) (16-502 1F & 1Q) Amendments (18-202 10F & 10I)

X 1. Plat is at a minimum scale of 1"=50' (unless it is depicted on one sheet with a minimum scale of 1"=100').

X 2. A graphic depicting the stormwater management facility(ies) and limits of clearing and grading accommodate the stormwater management facility(ies), storm drainage pipe systems and outlet protection, pond spillways, access roads, site outfalls, energy dissipation devices, and stream stabilization measures as shown on

Facility Name/ On-site area Off-site area Drainage Footprint Storage If pond, dam served (acres) served (acres) area (acres) area (sf) 0.78 NA 0.78 ±3000

X 4. Onsite drainage channels, outfalls and pipe systems are shown on Sheet 3 Pond inlet and outet pipe systems are shown on Sheet N/A

X 5. Maintenance access (road) to stormwater management facility(ies) are shown on Sheet 3.
Type of maintenance access road surface noted on the plat is GRASSCRETE (asphall, geoblock, gravel, etc.).

 Landscaping and tree preservation shown in and near the stormwater management facility is shown on Sheet <u>2,3</u>. X 7. A 'stormwater management narrative' which contains a description of how detention and best management practices requirements will be met is provided on Sheet _5

X 8. A description of the existing conditions of each numbered site outfall extended downstream from the site to a point which is at least 100 times the site area or which has a drainage area of at least one square mile (640 acres) is provided on Sheet __5__.

A description of how the outfall requirements, including contributing drainage areas of the Public Facilities Manual will be satisfied is provided on Sheet _5_.

X10. Existing topography with maximum contour intervals of two (2) feet and a note as to whether it is an air survey or field run is provided on Sheets ______.

11. A submission waiver is requested for _____

12. Stormwater management is not required because _____

4 RELIMIN

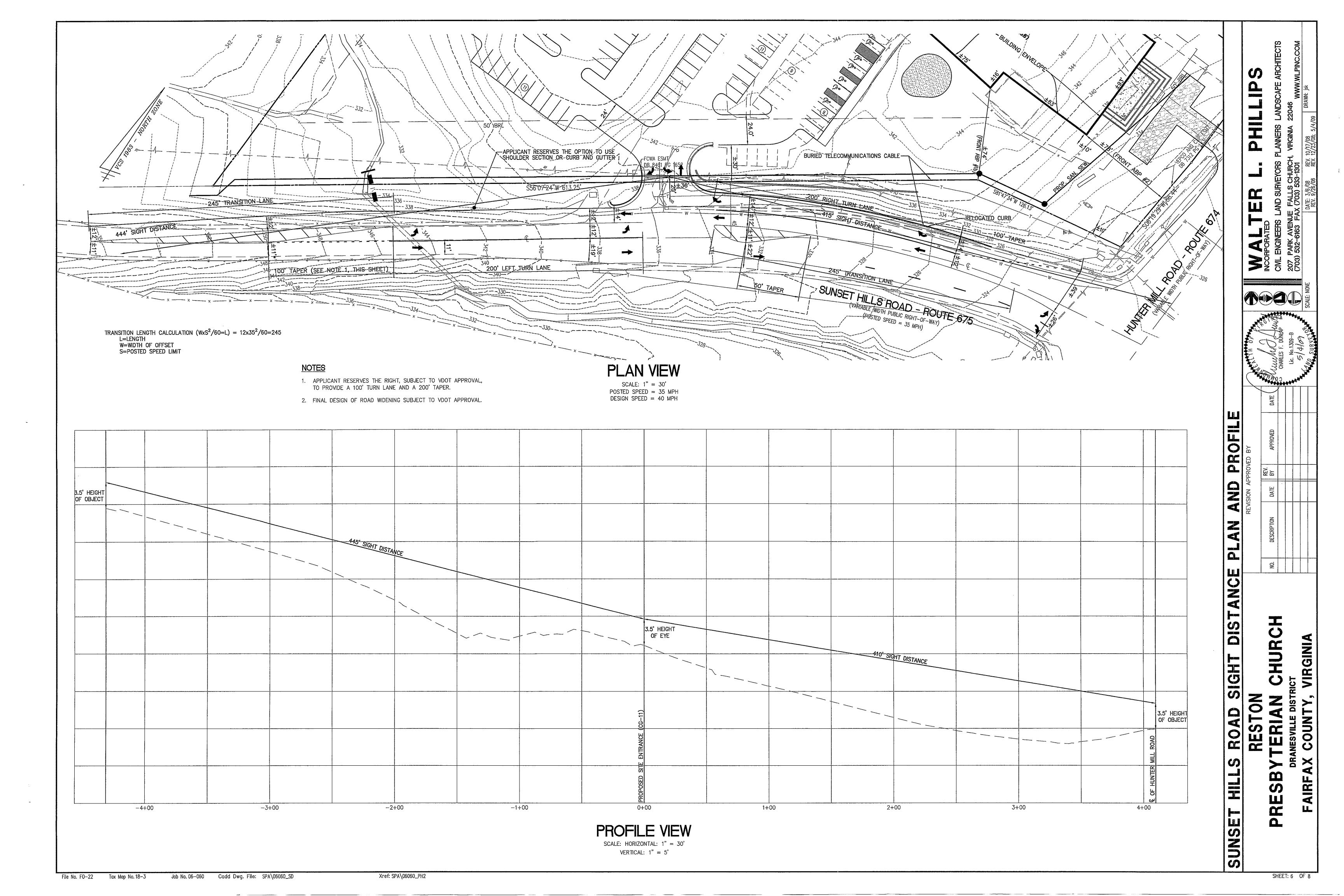
«I

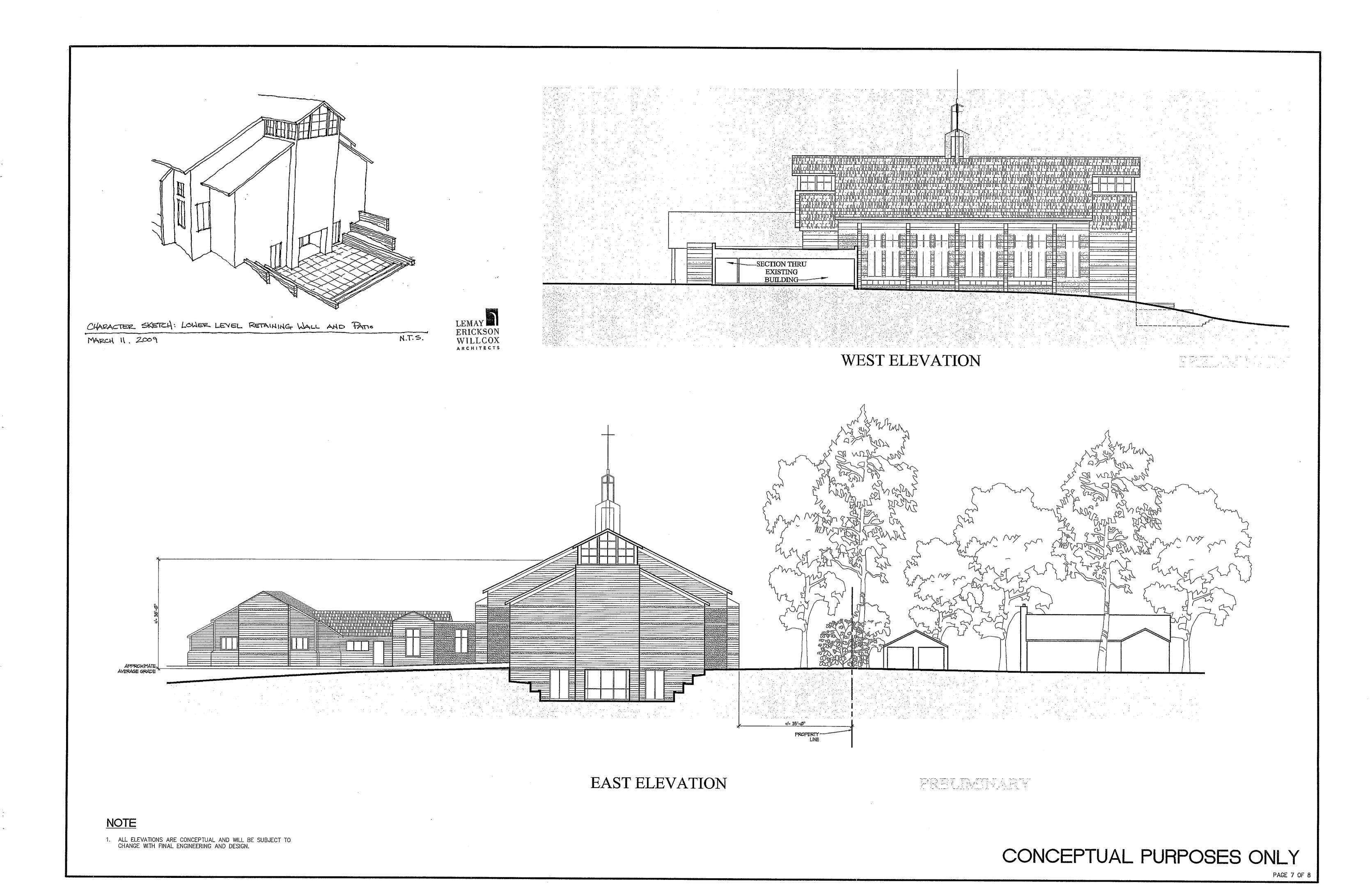
File No. FO-22 Tax Map No. 18-3 Job No. 06-060 Cadd Dwg. File: SPA\06060_SWM Xref: SPA\06060_PH2

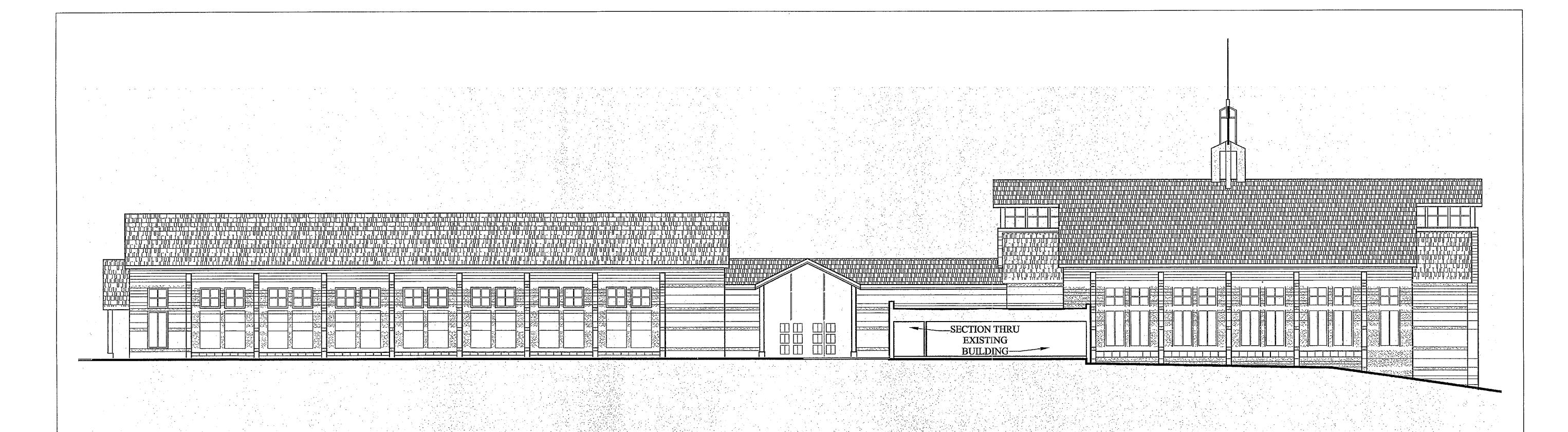
0

< C E 4

GINI

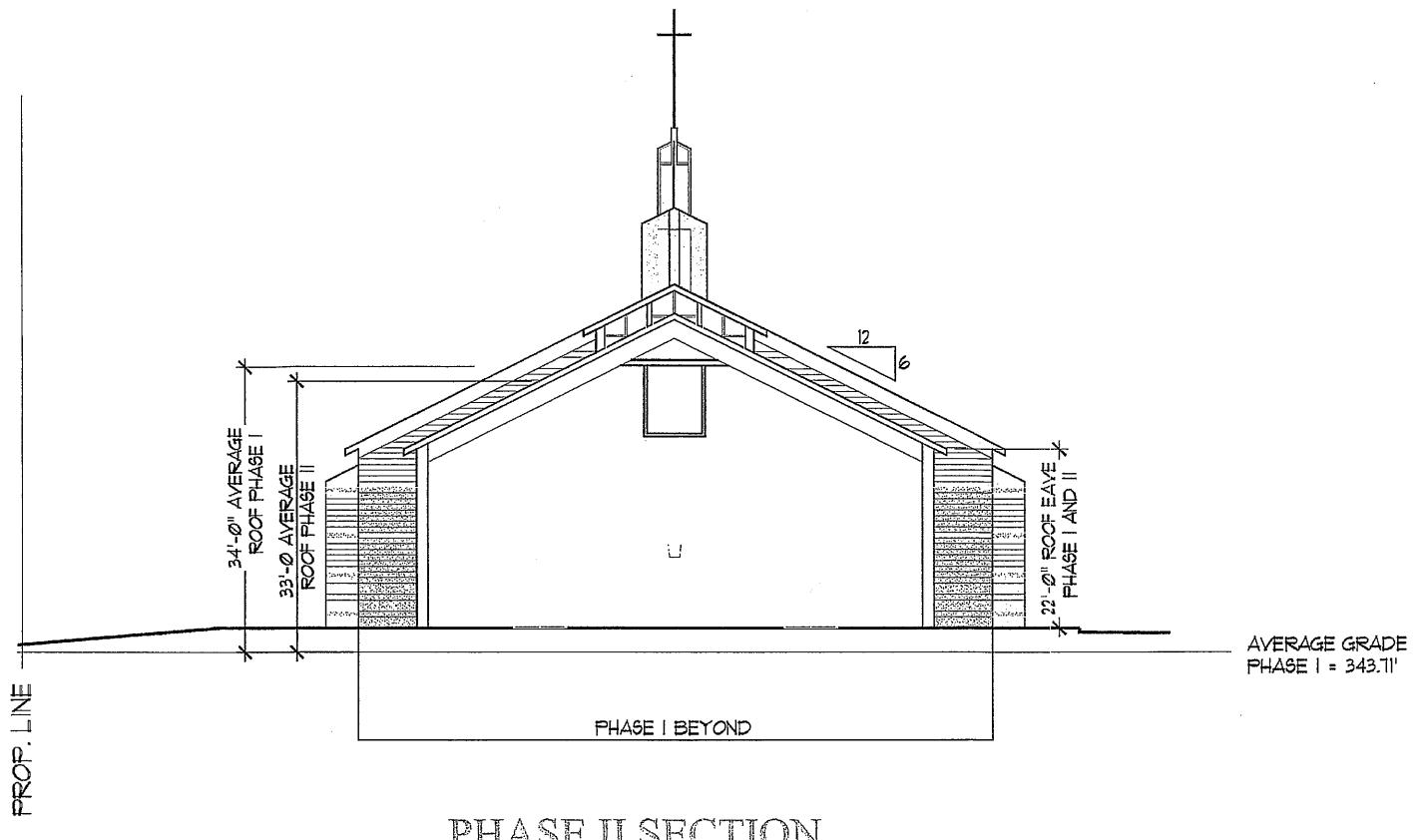






SOUTH ELEVATION

For Illustrative Purposes Only.
Subject to Final Engineering and Design.



PHASE II SECTION

For Illustrative Purposes Only.

Subject to Final Engineering and Design.

RESTON PRESBYTERIAN CHURCH

19 MARCH 2009



PAGE 8 OF 8